```
============================================================
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: markspencer
Timestamp: Thu Jun 28 15:19:12 EDT 2007
============================================================
```

```
Validated By CRFValidator v 1.0.2
```

Application No: 10591325   Version No: 1.0

                    Input Set:

                    Output Set:

              Started: 2007-06-27 17:53:03.655
             Finished: 2007-06-27 17:53:03.738
              Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 83 ms
       Total Warnings: 0
         Total Errors: 0
  No. of SeqIDs Defined: 3
    Actual SeqID Count: 3

SEQUENCE LISTING

<110>   THE UNIVERSITY OF BRITISH COLUMBIA
         RUSSELL, James A.
         WALLEY, Keith R.

<120>   THROMBOMODULIN (THBD) HAPLOTYPES PREDICT OUTCOME OF PATIENTS

<130>   80021-773

<140>   10591325
<141>   2007-06-27

<150>   10/591,325
<151>   2005-03-04

<150>   US 60/549,559
<151>   2004-03-04

<160>   3

<170>   PatentIn version 3.3

<210>   1
<211>   8532
<212>   DNA
<213>   Homo sapiens

<400>   1
atctgcacct cctcatatag ggttgatcca agtttcacag acatcactga gttcttagtg   60
gactcagcta ttggggctgt tctcacactt tttttttctt tgcaagaatc agcaatgggt   120
gcaagtggac ctgtgtagga cgtccagtga aacattgtgt tggtgaatca gctagaatcc   180
atccaagaac tcagccagcc tggtgtgggg tgagatctga tccttgaatg tccctcagtg   240
gcttttaggg ctggcaggtt cagaagggcc ctctcatcac cccccagggg cctcattcct   300
tgtttaacac tttgctatca cagtcttgaa tccttgtaat tgaacaatgg accccacatt   360
ttcactttgc actggtttct gattctgtaa ccgatcctgt cccctctct tgtctcattc   420
actctgggaa ttgtccccac attctgagac cttttcagcag tgccccaacg aggttcctgc   480
ccttatctga agctccaccc tcaccccat ggcggcaccg caggcagccc tgcttttgcg   540
tcccgcgtag gcaggctgtg caccggagtc acgaccccct gattcagcct aggcagccac   600
agcttgactg ctcccgccgg acaagcccta ctgtgctatc tgccgctctt cccttcctct   660
tcccaggggg tccgcgtcag gggaggcgca gctgtgtgca ttccgggagc ttcagacccc   720
cgtgtccagc agctccttcg tttcctgggt gctggggcgg ccttcccagc gaagagctca   780
actcagcggg acgtttggag gctctctgcc ccaaggcgct ggggagtgtg cggcgggaca   840
gtcgtgcttg ccttttttcac tttcagagtg tccacgcccc acccgtttgg tcactgcagg   900
tcagtccagt ccagcccggc ccacccccacc ggtgcgtgtc tgtcgcacgt ggcagacgcc   960
atactctctg ttcttgttta aagcccagga tctactgggc cctggaggca agaggtgaac   1020
gcagcggaat ccacgctgag ctgcccggga acggagcttc caaccccaga aggaggactc   1080
tgtgctccta caccttaacc cttttttagcc cgaaacttct ccaacttcct tggctttgtt   1140
tagagctcga cagcgccgcc ccctggcgct cgttgtgagg acagtagagg agagaggcaa   1200
gggtgttttt aaacagtttg cctctcacca ttatggggc gacccgaggg ggagacccac   1260
tcttccgcat tcccggtaag tgaaccaccg gaagaggtcg aaagtgacgg attcccatgt   1320
cctcctccag cccccccccc accctgccca tccacaggac ggtggctctt cagtgccctt   1380
tgccgagcaa gtggcgtttc tatgcacgtg ggtatcaatt cggactctgg acgaaatgga   1440
aacctcctta gccgaccCgg gtgggatcag ctgggatcct gcgcgctccc ctggggggtt   1500
gccagccact ctgttggggt gcaagaagca ccatccttcg gaagctgggc cgaaactggc   1560
caggctgact cgctcccacg cgcccgcccc tacccggcgc cgcagcaatt cacctgccac   1620
cgcctctgag ccgggtccgg acttcggcgc cctgacagtg tccccgcgac ttccccaccc   1680

```
gatgagatgg ggtctggcgt tggccagtgc gtgtccaggg actcgcgggt ccctggccag      1740
ccatggggca gagggcgctg gtgttaggcc agtcttcccc accctgcccc gtcaccccag      1800
ccacacccac tgtcctgtga ggccaagcgc gctccgctgg tttcctgagc caggcacctt      1860
ggccgcggac aggatccagc tgtctctcct tgcgatcctg tcttcgggga agtccacgtc      1920
ctaggcaggt cctcccaaag tgcccttggt gccgatcacc cctcccagcg tcttgcaggt      1980
cctgtgcacc acctccccca ctccccattc aaagccctct tctctgaagt ctccggttcc      2040
cagagctctt gcaatccagg ctttccttgg aagtggctgt aacatgtatg aaaagaaaga      2100
aaggaggacc aagagatgaa agagggctgc acgcgtgggg gcccgagtgg tgggcgggga      2160
cagtcgtctt gttacagggg tgctggcctt ccctggcgcc tgccctgtc ggccccgccc       2220
gagaacctcc ctgcgccagg gcagggttta ctcatcccgg cgaggtgatc ccatgcgcga      2280
gggcgggcgc aagggcggcc agagaaccca gcaatccgag tatgcggcat cagcccttcc      2340
caccaggcac ttccttcctt ttcccgaacg tccagggagg gagggccggg cacttataaa      2400
ctcgagccct ggccgatccg catgtcagag gctgcctcgc aggggctgcg cgcagcggca      2460
agaagtgtct gggctgggac ggacaggaga ggctgtcgcc atcggcgtcc tgtgcccctc      2520
tgctccggca cggccctgtc gcagtgcccg cgctttcccc ggcgcctgca cgcggcgcgc      2580
ctgggtaaca tgcttggggt cctggtcctt ggcgcgctgg ccctggccgg cctggggttc      2640
cccgcacccg cagagccgca gccgggtggc agccagtgcg tcgagcacga ctgcttcgcg      2700
ctctacccgg gccccgcgac cttcctcaat gccagtcaga tctgcgacgg actgcggggc      2760
cacctaatga cagtgcgctc ctcggtggct gccgatgtca tttccttgct actgaacggc      2820
gacggcggcg ttggccgccg gcgcctctgg atcggcctgc agctgccacc cggctgcggc      2880
gaccccaagc gcctcgggcc cctgcgcggc ttccagtggg ttacgggaga caacaacacc      2940
agctatagca ggtgggcacg gctcgacctc aatggggctc ccctctgcgg cccgttgtgc      3000
gtcgctgtct ccgctgctga ggccactgtg cccagcgagc cgatctggga ggagcagcag      3060
tgcgaagtga aggccgatgg cttcctctgc gagttccact tcccagccac ctgcaggcca      3120
ctggctgtgg agcccggcgc cgcggctgcc gccgtctcga tcacctacgg caccccgttc      3180
gcggcccgcg gagcggactt ccaggcgctg ccggtgggca gctccgccgc ggtggctccc      3240
ctcggcttac agctaatgtg caccgcgccg cccggagcgg tccaggggca ctgggccagg      3300
gaggcgccgg gcgcttggga ctgcagcgtg gagaacggcg gctgcgagca cgcgtgcaat      3360
gcgatccctg gggctccccg ctgccagtgc ccagccggcg ccgccctgca ggcagacggg      3420
cgctcctgca ccgcatccgc gacgcagtcc tgcaacgacc tctgcgagca cttctgcgtt      3480
cccaaccccg accagccggg ctcctactcg tgcatgtgcg agaccggcta ccggctggcg      3540
gccgaccaac accggtgcga ggacgtggat gactgcatac tggagcccag tccgtgtccg      3600
cagcgctgtg tcaacacaca gggtggcttc gagtgccact gctaccctaa ctacgacctg      3660
gtggacggcg agtgtgtgga gcccgtggac ccgtgcttca gagccaactg cgagtaccag      3720
tgccagcccc tgaaccaaac tagctacctc tgcgtctgcg ccgagggctt cgcgcccatt      3780
ccccacgagc cgcacaggtg ccagatgttt tgcaaccaga ctgcctgtcc agccgactgc      3840
gaccccaaca cccaggctag ctgtgagtgc cctgaaggct acatcctgga cgacggtttc      3900
atctgcacgg acatcgacga gtgcgaaaac ggcggcttct gctccggggt gtgccacaac      3960
ctccccggta ccttcgagtg catctgcggg cccgactcgg ccccttgycg ccacattggc      4020
accgactgtg actccggcaa ggtggacggt ggcgacagcg gctctggcga gccccgccc        4080
agcccgacgc ccggctccac cttgactcct ccggccgtgg ggctcgtgca ttcgggcttg      4140
ctcataggca tctccatcgc gagcctgtgc ctggtggtgg cgcttttggc gctcctctgc      4200
cacctgcgca agaagcaggg cgccgccagg gccaagatgg agtacaagtg cgcggcccct      4260
tccaaggagg tagtgctgca gcacgtgcgg accgagcgga cgccgcagag actctgagcg      4320
gcctccgtcc aggagcctgg ctccgtccag gagcctgtgc ctcctcaccc ccagctttgc      4380
taccaaagca ccttagctgg cattacagct ggagaagacc ctccccgcac cccccaagct      4440
gttttcttct attccatggc taactggcga gggggtgatt agagggagga gaatgagcct      4500
cggcctcttc cgtgacgtca ctggaccact gggcaatgat ggcaattttg taacgaagac      4560
acagactgcg atttgtccca ggtcctcact accgggcgca ggagggtgag cgttattggt      4620
cggcagcctt ctgggcagac cttgacctcg tgggctaggg atgactaaaa tatttatttt      4680
ttttaagtat ttaggttttt gtttgtttcc tttgttctta cctgtatgtc tccagtatcc      4740
actttgcaca gctctccggt ctctctctct ctacaaactc ccacttgtca tgtgacaggt      4800
aaactatctt ggtgaatttt tttttcctag ccctctcaca tttatgaagc aagccccact      4860
tattccccat tcttcctagt tttctcctcc caggaactgg gccaactcac ctgagtcacc      4920
ctacctgtgc ctgaccctac ttcttttgct cttagctgtc tgctcagaca gaaccccctac      4980
atgaaacaga aacaaaaaca ctaaaaataa aaatgccat ttgctttttc accagatttg        5040
ctaatttatc ctgaaatttc agattcccag agcaaaataa ttttaaacaa aggttgagat      5100
```

```
gtaaaaggtr ttaaattgat gttgctggac tgtcatagaa attacaccca aagaggtatt    5160
tatctttact tttaaacagt gagcctgaat tttgttgctg ttttgatttg tactgaaaaa    5220
tggtaattgt tgctaatctt cttatgcaat ttcctttttt gttattatta cttatttttg    5280
acagtgttga aaatgttcag aaggttgctc tagattgmga gaagagacaa acacctccca    5340
ggagacagtt caagaaagct tcaaactgca tgattcatgc caattagcaa ttgactgtca    5400
ctgttccttg tcactggtag accaaaataa aaccagctct actggtcttg tggaattggg    5460
agcttgggaa tggatcctgg aggatgccca attagggcct agccttaatc aggtcctcag    5520
agaatttcta ccatttcaga gaggcctttt ggaatgtggc ccctgaacaa gaattggaag    5580
ctgccctgcc catgggagct ggttagaaat gcagaatcct aggctccacc ccatccagtt    5640
catgagaatc tatatttaac aagatctgca ggggtgtgt ctgctcagta atttgaggac      5700
aaccattcca gactgcttcc aattttctgg aatacatgaa atatagatca gttataagta    5760
gcaggccaag tcaggccctt attttcaaga aactgaggaa ttttctttgt gtagctttgc    5820
tctttggtag aaaaggctag gtacacagct ctagacactg ccacacaggg tctgcaaggt    5880
ctttggttca gctaagctag gaatgaaatc ctgcttcagt gtatggaaat aaatgtatca    5940
tagaaatgta actttgtaa dacaaaggtt ttcctcttct attttgtaaa ctcaaaatat      6000
ttgtacatag ttatttattt attggagata atctagaaca caggcaaaat ccttgcttat    6060
gacatcactt gtacaaaata aacaaataac aatgtgctct cgggttgtgt gtctgttcac    6120
ttttcctccc tcagtgccct cattttatgt cattaaatgg ggctcacaaa ccatgcaaat    6180
gctatgagat gcatggaggg ctgccctgta ccccagcact tgtgttgtct ggtgrtggca    6240
ccatctctga ttttcaaagc tttttccaga ggctattatt ttcactgtag aatgatttca    6300
tgctatctct gtgtgcacaa atatttattt tctttctgta accataacaa cttcatatat    6360
gaggacttgt gtctctgtgc ttttaaatgc ataaatgcat tataggatca tttgttggaa    6420
tgaattaaat aaacccttcc tggggcatct ggcgaatccc agctgtgtgt ccggtgtatg    6480
gtttggcatt atctcctctg cgagatatcc aaattcactg tagtcatgaa gggtctcagt    6540
ttgtggctct cattcaaata ttcatttcta aacgtctcat ccagtatgaa atcattctca    6600
tctcttttgg agattaacaa catcatcttt tcaatgcaca cgtttcttgg gctcactttt    6660
ctaaggtggt agggctggct gaatgcaata tgcagggctc ggaaagattt tttaaagaag    6720
aaattaaaag caagtagagt ccaggcaaat attcagatgc tttatatgtc tggataatgc    6780
tgaactcatg agttttagtt tgactgatta ttgtgaagac cgggttggag attttgacat    6840
ccatcgcaga agaagtaatg gctttagtgt gtgtgtgtgt gtgtgctggg gaagctccat    6900
gcacagtgcc ctatggagat aacaagctga gccatgctcc ccctaagtag cagactaagt    6960
ctttgtgaag gaagagctac acaaatgggg gcaggacagg tgcagataaa tggggctggg    7020
agaccagagg agacagtgac accttatagt tcgcccctg ttacccagcc ttctgtttgt      7080
caaaagagtc tgctcccagt cactgtcaaa ctgacttgta gggcctcatt gcgttaggat    7140
ttcttcttat tccagaagag gggcatttc ttaaggaaca ctggaagacc aaaacacact      7200
ttcaaaacct agaggcaaaa acccttcatg cagcacttgg gccccaggac attagttgtg    7260
cggggccctg agcttccctg tcctcctcac ttcctgctgc ctgggggatc agcagttctg    7320
tttataggtc tcatctgaac ttgagattct caaaacgcta aatagccata gtgcctctca    7380
gggaaagata ccaggaccac ataaacaaat cagttagctt taaaaactat ccctgagcat    7440
ttaaaatcag gatagacctt gtgaaaccag agccatgggt caacctgtgt gatctctgct    7500
ttctgttcac atcattggac atccaggtct gagggagact cccaggacc agttgctggt      7560
gaaatttcat agcacaaaag tccggggcaa gaaagccaag gtggtatttc tggataagcc    7620
agcattcaag tttgtttgtt tgtttgtttg tttgtttttc ctagcctgct gtttttaaagt    7680
aaacagaatg catttttta agtcaaatga ctttgttatt ttttttttcc agttctcacc      7740
tatttcttag attagttcag caattattta ctgagcattt actctgtgcc tttcatagtg    7800
ataggcacaa tgacaagtcc ctaccatata agttagactc tggcagggga gaaagatgca    7860
aaacaactga tcacccccaa attgtactta acttagaaac agtgataagt gcaggggaag    7920
aaaagcacag cacactctga aaaggcgcac gaggaaggca ggatttagag tggaggacta    7980
gagggagctt cctggacaag ctgacactta acaccagacc tgaaggggaa ggaggggttt    8040
gtcaaatgca aactggaggg gaagcagtcc aggtgggaag gatcacacct gcaaaggccc    8100
tgtactggga agagccctgg tggagcggac tgggcatagt gaacaaggtg aggtgggctg    8160
caaggcagct gaagaggtgg aaagagagat acaagcagtg ggagatgact gtaggggctg    8220
taggtcaaag acactgaaaa aaagactgaa agagtgacat tgaaaaatgt tctgggtgca    8280
agtggggggca ctcaaggagt tttgatgaga gtgcactggg attcaattta tgtactgcat    8340
tgtttgggaa gataacaact acttctagat gtatttacat gtccctcttg ggcaggaacc    8400
tgcacaattt ccgctgtaag caccccgcag ggctgatatg tggtgtgaac agcatacaca    8460
cctgggtgtg accccagcct gaaacctgct ggtcacatgg ccacgggcac cacatgaccc    8520
```

ttcaaaggct gt   8532

<210>   2
<211>   101
<212>   DNA
<213>   Homo sapiens

<400>   2
ttacttattt ttgacagtgt tgaaaatgtt cagaaggttg ctctagattg mgagaagaga   60
caaacacctc ccaggagaca gttcaagaaa gcttcaaact g   101

<210>   3
<211>   511
<212>   DNA
<213>   Homo sapiens

<400>   3
gcgtctgcgc cgagggcttc gcgcccattc cccacgagcc gcacaggtgc cagatgtttt   60
gcaaccagac tgcctgtcca gccgactgcg accccaacac ccaggctagc tgtgagtgcc   120
ctgaaggcta catcctggac gacggtttca tctgcacgga catcgacgag tgcgaaaacg   180
gcggcttctg ctccggggtg tgccacaacc tccccggtac cttcgagtgc atctgcgggc   240
ccgactcggc ccttgyccgc cacattggca ccgactgtga ctccggcaag gtggacggtg   300
gcgacagcgg ctctggcgag cccccgccca gcccgacgcc cggctccacc ttgactcctc   360
cggccgtggg gctcgtgcat tcgggcttgc tcataggcat ctccatcgcg agcctgtgcc   420
tggtggtggc gcttttggcg ctcctctgcc acctgcgcaa gaagcagggc gccgccaggg   480
ccaagatgga gtacaagtgc gcggcccctt c   511